ABSTRACT

"APPARATUS AND METHODS FOR
DETECTING NUCLEIC ACID IN BIOLOGICAL SAMPLES"

There are disclosed apparatus and methods for the field-assisted acceleration of biological processes involving charged entities, including in particular the detection of target DNA in a biological sample. A reaction cell is provided with a dielectric surface, and a field is generated by inducing charge-separation in the dielectric material by applying a potential to an electrode in contact with the dielectric material.